

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/JP2004/000083

**A. CLASSIFICATION OF SUBJECT MATTER**  
Int.Cl<sup>7</sup> A61M39/04

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> A61M5/14, 39/00-39/26, F16K7/00, 27/00, F16L21/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004  
 Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	EP 1243285 A1 (TERUMO KABUSHIKI KAISHA), 25 September, 2002 (25.09.02), Par. Nos. [0001], [0028], [0038] to [0047], [0068], [0138] to [0144], [0175] to [0177]; all drawings & WO 01/43813 A1	1-7, 13-15 11-12
X A	WO 01/7102 A1 (ALARIS MEDICAL SYSTEMS, INC.), 01 February, 2001 (01.02.01), Page 13, line 15 to page 14, line 26; page 21, line 3 to page 25, line 9; Figs. 1 to 6, 21 to 30 & US 2002/133124 A1 & JP 2003-505158 A	1, 7-10, 13-15 11-12

Further documents are listed in the continuation of Box C.  See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier document but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 16 April, 2004 (16.04.04)	Date of mailing of the international search report 11 May, 2004 (11.05.04)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.

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**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2000-126306 A (Nippon Sherwood Medical Industries Ltd.), 09 May, 2000 (09.05.00), Full text; all drawings (Family: none)	11-12

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### Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:

because they relate to subject matter not required to be searched by this Authority, namely:

2.  Claims Nos.:

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3.  Claims Nos.:

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

The special technical feature of the inventions of Claim 1 and claims referring back to Claim 1 is that "a valve hole of a seat valve is opened by pressing the seat valve with the head of a male-type connection mouth without making the head of the male-type connection mouth to penetrate through the seat valve."

The special technical feature of the inventions of Claim 2 and claims referring back to Claim 2 is "provided with a substantially semicircular portion at the top." (continued to extra sheet)

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest  The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

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Continuation of Box No. II of continuation of first sheet(1)

The special technical feature of the inventions of Claim 3 and claims referring back to Claim 3 is "formed in an arch-type convex shape with its lower face projecting downward."

There is no technical relationship between the inventions involving one or more of the same or corresponding special technical features.